

The Gazette



of India

PUBLISHED BY AUTHORITY

No. 13] NEW DELHI, SATURDAY, JUNE 15, 1963/JYAISTHA 25, 1885

PART I—Section 3

**Notifications relating to Non-Statutory Rules, Regulations, Orders and Resolutions issued by the
Ministry of Defence**

No. 1822, dated 17th May, 1963.—An examination for admission to the Indian Navy as Special Entry Cadets shall be held by the Union Public Service Commission at such places and on such dates as may be specified in the Notice issued by the Commission in this behalf. The approximate number of vacancies to be offered for entry to the Indian Navy on the results of the examination will be specified in the Notice issued by the Commission.

2. Admission to the Indian Navy will be made on the results of a written examination to be conducted by the Union Public Service Commission, and an interview by a Services Selection Board.

3. Candidates who have applied for the grant of Emergency Commission in the Army or for Commission in the Technical Branches under the Graduate Entry Scheme or for Direct Entry Commission in the Air Force must exercise their final option before admission to the Indian Navy course. After admission, they will not be considered for any other said Commissions.

4. A candidate must be an unmarried male and must either be:—

- (a) a citizen of India, or
- (b) a subject of Sikkim, or
- (c) a subject of Nepal, or
- (d) a person of Indian origin who has migrated from Pakistan with the intention of permanently settling in India.

NOTE I.—A widower or a person who has divorced his wife cannot be treated as an unmarried male for the purpose of the above Rule.

NOTE II.—The selection of candidates in categories (c) and (d) above will be subject to the issue of certificates of eligibility in their favour by the Government of India. The certificate of eligibility in respect of candidates belonging to category (d) will be valid only for a period of one year from the date of his selection beyond which he would be retained only if he has become a citizen of India. Certificates of eligibility will not, however, be necessary in the case of candidates belonging to one of the following categories:—

- (i) Persons who migrated to India from Pakistan before 19th July, 1948, and have ordinarily been residing in India since then.
- (ii) Persons who migrated to India from Pakistan after 18th July, 1948, and have got themselves registered as citizens under article 6 of the Constitution.
- (iii) Gorkha subjects of Nepal.

5. CANDIDATES SHOULD BE MEDICALLY FIT IN ALL RESPECTS FOR SERVICE IN ANY PART OF THE WORLD. THE STANDARDS OF MEDICAL FITNESS ARE SHOWN IN APPENDIX I.

A NUMBER OF QUALIFIED CANDIDATES ARE REJECTED SUBSEQUENTLY ON MEDICAL GROUNDS. CANDIDATES ARE, THEREFORE, ADVISED IN THEIR OWN INTEREST TO GET THEMSELVES MEDICALLY EXAMINED BEFORE SUBMITTING THEIR APPLICATIONS TO AVOID DISAPPOINTMENT AT THE FINAL STAGE.

A sufficient number of suitable candidates recommended by the Services Selection Board will be medically examined by a Board of Service Doctors. A candidate who is not declared

fit by the Medical Board will not be admitted to the Indian Navy. The very fact that the medical examination has been carried out by a Board of Service Doctors will not mean or imply that the Candidate has been finally selected. The proceedings of the Medical Board are confidential and cannot be divulged to anyone. The results of candidates declared temporarily unfit are intimated to them along with the procedure for submission of fitness certificate and appeal. No requests for the results of Medical Board will be entertained by the President of the Medical Board.

6. Candidates must undertake not to marry until they complete their full training. A candidate who marries subsequent to the date of his application, though successful at this or any subsequent examination, will not be selected for training. A candidate who marries during training shall be discharged and will be liable to refund all expenditure incurred on him by the Government.

7. A candidate for admission to the examination must have attained the age of 17½ years and must not have attained the age of 19½ years on the first day of the month in which the Course for the Indian Navy is due to commence.

The prescribed age limits can in no case be relaxed.

8. A candidate must have passed one of the following examinations or must possess one of the following certificates:—

- (a) the Intermediate or an equivalent Examination of a University or Board approved by the Government of India; or
- (b) the first year Examination under the three-year Degree course of a University approved by the Government of India; or
- (c) the pre-Engineering Examination of the Delhi Polytechnic, Delhi, or of a University approved by the Government of India; or
- (d) the pre-professional/pre-technological Examination of an Indian University or a recognised Board conducted one year after the Higher Secondary or the pre-university stage; or
- (e) the first year Examination under the five-year Engineering Degree course of a University; or
- (f) the Jamia Senior Examination of the Jamia Millia Islamia, Delhi; or
- (g) the Cambridge Higher School Certificate examination; or
- (h) a diploma examination in engineering provided that the examination is taken after a course lasting not less than 2 years subsequent to Matriculation and provided also that the examination is recognised by a State Government for employment under it; or
- (i) any other examination which may be recognised by the Union Public Service Commission, as equivalent to the above.

NOTE.—A candidate who has appeared or intends to appear at any of the above examinations, may also apply for admission to this examination. Such candidates will be admitted to the examination, if otherwise eligible, but the admission would be deemed to be provisional and subject to cancellation if the candidates do not produce proof of having passed the examination, as soon as possible and in any case not later than a date which may be fixed by the Union Public Service Commission in this regard.

9. Candidates who were admitted to an earlier course for training as Naval CADETS or for training at the National Defence Academy, Indian Military Academy or Air Force Flying College but were removed therefrom on disciplinary grounds will not be eligible for admission to this examination.

Candidates who were previously withdrawn on medical grounds from any of these institutions or who left the institutions voluntarily are, however, eligible for admission to this examination.

Candidates who were previously selected as Special Entry Naval Cadets but were withdrawn from the National Defence Academy or from Naval Training Establishments for lack of officer-like qualities will not also be eligible for admission to this examination.

Candidates who were withdrawn from the other institutions for lack of officer-like qualities will, however, be eligible for admission to this examination.

10. The decision of the Union Public Service Commission as to the eligibility or otherwise of a candidate shall be final.

11. A candidate found guilty of impersonation or of submitting fabricated documents or documents which have been tampered with, or of making statements which are incorrect or false or suppressing material information, or of using or attempting to use unfair means in the examination hall or otherwise resorting to any other irregular or improper means for obtaining admission to the examination may in addition to rendering himself liable to a criminal prosecution, be debarred either permanently or for a specified period:—

(a) by the Commission from admission to any examination or appearance at any interview held by the Commission for selection of candidates; and

(b) by the Central Government from employment under the Government.

12. No candidate shall be admitted to the examination unless he holds a certificate of admission from the Union Public Service Commission.

13. Any attempt on the part of a candidate to obtain support for his candidature by any means may disqualify him for admission.

14. The examination will be conducted by the Commission in the manner prescribed in Appendix II to the Notification.

15. Candidates must pay the fees prescribed in Appendix III. No claim for a refund of the fees will be entertained except to the extent stated in that Appendix, nor can the fees be held in reserve for any other examination or selection.

16. The Union Public Service Commission shall prepare a list of candidates in order of merit as disclosed by the aggregate marks awarded to each candidate at the written examination. The candidates who obtain the minimum qualifying marks in the written examination, as fixed by the Commission in their discretion, shall be interviewed by a Services Selection Board. The maximum marks obtainable at Services Selection Board interview will be 1,500.

To be acceptable, candidates should secure the minimum qualifying marks separately in (i) written examination and (ii) Services Selection Board Test, as fixed by the Commission in their discretion. Subject to this condition, they will then be placed in the order of merit on the basis of the total marks secured in the written examination and the interview. The final selection for admission to the Indian Navy will be made in order of merit subject to medical fitness and suitability in all other respects and number of vacancies available.

Candidates will appear before the Services Selection Board and undergo the test thereat at their own risk and will not be entitled to claim any compensation or other relief from Government in respect of any injury which they may sustain in the course of or as a result of any of the tests given to them at the Services Selection Board, whether due to the negligence of any person or otherwise. Candidates will be required to sign a certificate to this effect on the form appended to the application. In the case of candidates who are minors, the required certificate must be signed by their parents or guardians in the form prescribed. Candidates when called for interview by a Services Selection Board or for subsequent training will be eligible for travelling allowance in accordance with the rules then in force. Candidates who have previously been before a Services Selection Board for the same type of Commission are not entitled to travelling allowance on subsequent occasions.

Success at the examination confers no right to admission to the Indian Navy.

A candidate must satisfy the appointing authority that he is suitable in all respects for admission to the Indian Navy.

NOTE.—The form and manner of communication of the result of the examination to individual candidates shall be decided by the Commission in their discretion.

17. Candidates finally selected for training at the Academy will be required to deposit the following amount with the Commandant, National Defence Academy, on arrival there:—

(a) Candidates not applying for Government financial aid:—	
(i) Pocket allowance for five months @ Rs. 40 per month.	Rs. 200
(ii) For items of clothing and equipment.	Rs. 500
TOTAL	Rs. 700

(b) Candidates applying for Government financial aid:—

(i) Pocket allowance for two months @ Rs. 40 per month.	Rs. 80
(ii) For items of clothing and equipment	Rs. 125
TOTAL	Rs. 205

18. Selected candidates will be appointed as cadets and will undergo one year's training at the National Defence Academy. On completion of this training, they will be required to undergo further training in Ships/Establishments of the Indian Navy.

The duration of the entire period of training (including 1 year at the Academy) will be $3\frac{1}{2}$ to $6\frac{1}{2}$ years depending upon the Branch of the Service to which a cadet is allocated.

19. During the period of their training Cadets of all the Branches are promoted to the rank of Midshipman and Acting Sub-Lieutenant and in the case of Engineering and Electrical Branches they are also promoted to the rank of Sub-Lieutenant (and possibly to the rank of Lieutenant).

20. While at the National Defence Academy, cadets will be subject to the discipline of the Academy. During training in Ships and Establishments of the Indian Navy they will be subject to the Indian Navy (Discipline) Act, 1934. During all stages of initial training, Cadets, etc., will be liable to be withdrawn from training and discharged if their progress is found to be unsatisfactory or they are otherwise considered unsuitable.

21. While at the Academy, the cost of Cadets training including books, uniform, accommodation, boarding and medical treatment will be borne by the Government but the Cadets will be expected to meet their pocket expenses. The pocket expenses of Cadets are likely to be Rs. 40 per month. Where Cadets' parents or guardians are unable to meet wholly or partly even this expenditure, financial assistance upto Rs. 40 p.m. may be granted by the Government provided no Cadet whose parent or guardian has an income of Rs. 300 or above per month would be eligible for the grant of financial assistance.

A candidate desiring financial assistance should immediately after being finally selected for training at the Academy, submit an application through the District Magistrate of his district who will with his recommendations, forward the application to the Director of Military Training, Army Headquarters, New Delhi.

22. The following scholarships are tenable at the National Defence Academy:—

1. **PARSHURAM BHAI PATWARDHAN SCHOLARSHIP.**—This scholarship is awarded to cadets from Maharashtra and Karnatak. The value of one scholarship is upto a maximum of Rs. 1,000 per annum for the duration of a cadet's stay at the National Defence Academy, subject to the cadet making satisfactory progress. The scholarship will also be available at the Army, Naval or Air Force training establishments where a cadet may be sent for further training after he has completed his training at the National Defence Academy. The cadets who are granted this scholarship will not be entitled to any other financial assistance from the Government.
2. **MAHARAJA JAGADDIPENDRA NARAYAN SCHOLARSHIP.**—This scholarship of the value of Rs. 360 per annum is granted to a needy cadet who fails to secure any financial assistance from the Government and is paid on completion of a term at the National Defence Academy. The scholarship is sanctioned by the Government on a means-cum-merit basis.
3. **COLONEL KENDAL FRANK'S MEMORIAL SCHOLARSHIP.**—This scholarship is of the value of Rs. 360 per annum and is granted to a Maratha cadet who should be the son of an ex-serviceman. The scholarship is in addition to any financial assistance from the Government.

23. Subsequent training in ships and establishments of the Indian Navy is also at the expense of the Government. During the first six months of their training after leaving the National Defence Academy, financial concessions similar to

those admissible at the Academy *vide* paragraph 21 will be extended to them. After six months of training in ships and establishments of the Indian Navy when Cadets are promoted to the rank of Midshipman they begin to receive pay and parents are not expected to pay for any of their expenses.

24. Pay and allowances, pension, leave and other conditions of service after the grant of commissions, will be identical with those applicable from time to time to regular officers of the Indian Navy.

25. No candidate will normally be permitted to resign voluntarily, whilst under training.

26. Before a candidate is selected as a cadet in the Indian Navy, his parent or guardian will be required to sign—

- (a) A certificate to the effect that he fully understands that he or his son/ward shall not be entitled to claim any compensation or other relief from the Government in respect of any injury which his son/ward may sustain in the course of or as a result of the training whether due to negligence of any person or otherwise.
- (b) A bond to the effect that if for any reasons considered within the control of the candidate, he wishes to withdraw from training, or fails to accept a commission, if offered, he will be liable to refund the whole or such portion of the cost of tuition, food, clothing and pay and allowances received, as may be decided upon by Government.

S. V. SAMPATH, Dy. Secy.

APPENDIX I

PHYSICAL STANDARDS FOR ADMISSION AS SPECIAL ENTRY CADETS IN THE INDIAN NAVY

To be passed fit for admission to the Indian Navy, a candidate must be in good mental and bodily health and free from any defect likely to interfere with the efficient performance of duty.

2. The following points are to be particularly observed:—

- (a) that there is no evidence of weak constitution, imperfect development, serious malformation or obesity;
- (b) that there is no disease or impairment of function of the bones and joints;
- (c) that there is no malformation of the head, deformity from fracture or depression of the bones of the skull;
- (d) that there is no impediment of speech;
- (e) that there is no impaired hearing, discharge from or disease of either ear, unhealed perforation of the tympanic membranes or signs of acute or chronic suppurative otitis media or evidence of radical or modified radical mastoid operation;
- (f) that there is no disease of the bones or cartilages of the nose, nasal polypus or disease of the nasopharynx and accessory sinuses;
- (g) that there are no enlarged glands, tubercular or due to other diseases, in the neck and other parts of the body and that the thyroid gland is normal.

NOTE.—Scars of operations for the removal of tuberculous glands are not a cause for rejection provided that there has been no active disease within the preceding 5 years and the chest is clinically and radiologically clear;

- (h) that there is no disease of the throat, plate, tonsils or gums or any disease or injury affecting the normal function of either Mandibular joint.

NOTE.—Simple hypertrophy of the tonsils, there is no history of attacks of tonsillitis, is not a cause for rejection.

- (i) that there is no sign of functional or organic disease of the heart and blood vessels;
- (j) that there is no evidence of pulmonary tuberculosis or previous history of this disease or any other chronic disease of the lungs;
- (k) that there is no evidence of any disease of the digestive system. The liver and spleen should not be enlarged and there is no abdominal tenderness on palpitation;
- (l) that there is no hernia or tendency thereto;
- (m) that there is no hydrocele, varicocele or any other disease or defect of the genital organs;
- (n) that there is no disease of the kidneys. Cases showing albuminuria or glycosuria will not be accepted;
- (o) that there is no fistula and/or fissure of the anus or evidence of haemorrhoids;

- (p) that there is no skin disease unless temporary or trivial. Scars which by their extent or position cause or are likely to cause disability or marked disfigurement are a cause for rejection;
- (q) that there is no congenital, active or latent venereal disease;
- (r) that there is no history or evidence of mental disease. Candidates with history of fits, incontinence of urine or ENURESIS will not be accepted;
- (s) that there is no squint or any morbid condition of eye or of the lids that is liable to a risk of aggravation or recurrence;
- (t) that there is no active Trachoma or its complications and sequelae.

NOTE.—Remedial operations are to be performed prior to entry. No guarantee is given of ultimate acceptance and it should be clearly understood by the candidate that the decision whether an operation is desirable or necessary is one to be made by his private medical adviser. The Government will accept no liability regarding the result of operation or any expense incurred.

3. Height, weight and chest—

- (a) Height.—The minimum height for a candidate of 18 years of age is 62" except where otherwise stated. In case of Gorkhas, Nepalese, Assamese and Garhwal candidates, the minimum height may be reduced by 2".
- (b) Weight.—A table showing correlation between height and weight is given below for guidance of the examining Medical Officer/Medical Board:

Age period	16-17	18-19	20-22
Height 'inches'	lbs.	lbs.	lbs.
60	95	99	104
61	97	101	106
62	100	104	109
63	103	107	112
64	106	110	116
65	110	114	118
66	112	116	122
67	116	120	125
68	120	124	129
69	124	128	133
70	128	132	137
71	133	137	141
72	138	142	146

NOTE.—Heights and weights as shown above are for men fully stripped. It is not possible to lay down precise standards with regard to height and weight. This is left to the discretion of the Recruiting Medical Officer/Medical Board who may select candidates below height/weight who in his/their opinion would acquire the necessary height/weight standards on attaining the age of 18/completion of training.

- (c) Chest.—The chest should be well proportioned and well developed with a minimum range of expansion of 2 inches.

4. It should be ensured that sufficient number of sound, natural teeth for efficient mastication are present.

(a) In order to assess the dental condition of an individual, teeth in good apposition with corresponding teeth in the other jaw will be allotted points as follows:—

- (i) Central incisor, lateral incisor, canine, 1st and 2nd premolar and under developed 3rd Molar—1 point each.
- (ii) 1st and 2nd molar and fully developed third molar—2 points each.

When all 32 teeth are present, there will be a total count of 22 points.

(b) The following teeth on each side of the jaw in good functional apposition must be present:—

- (i) Central incisor, lateral incisor, canine—At least two must be present.
- (ii) 1st Premolar, 2nd Premolar—At least one must be present.
- (iii) 1st Molar, 2nd Molar, 3rd Molar—At least two must be present.

(c) A candidate must have a minimum of 14 dental points to be acceptable.

(d) Candidates suffering from severe pyorrhoecia will be rejected. Where the state of pyorrhoecia is such that in the opinion of the Dental Officer, it can be cured without extraction of teeth the candidate may be accepted.

5. An X-Ray examination of chest will be carried out. Any defects or disability discovered during this examination will disqualify a candidate from entry into the Service.

Eyesight Standard

Distant Vision (without glasses)		Near Vision (without glasses)	Colour perception standard
6/6	6/9	Each eye D-0.5 snellen	1

NOTE 1.—Relaxation in respect of Engineering, Electrical and Supply Branches upto 6/18, 6/36 correctable to 6/6 will be permissible for a limited number of otherwise meritorious candidates, subject to the proviso that they will continue to serve in the Branches chosen on entry.

NOTE 2.—Candidates for Executive Branch, who fail to secure night vision standard 11 (eleven) are to be rejected.

6. Acceptable defects at entry.—Candidates for entry into the Navy presenting mild degree of the following defects may be accepted:—

- (a) slight degree of varicocoele;
- (b) knock knee with a separation of legs less than two inches of interval malleoli;
- (c) defective gait not affecting walking or running;
- (d) partly flexible flat feet with only a short history of foot strain;
- (e) healed and dry perforation in the ear drum if the hearing is good;
- (f) III & IV degree trachoma without entropion;
- (g) mild curvature of leg not affecting walking or running;
- (h) mild hammer toe with no history of trouble;
- (i) slight stammering, but not affecting expression;
- (j) mild degree of varix;
- (k) any other slight defect which in the opinion of the Medical Officer will not interfere with the individual's efficiency as an officer or sailor.

APPENDIX II

The subjects of the written examination, the time allowed and the maximum marks allotted to each subject will be as follows:—

Subject	Time allowed	Maximum marks
(A) Compulsory:—		
1. English	2½ hours	300
2. General Knowledge		
Paper I.		
Current Affairs and History	2 hours	150
Paper II.		
Science and Geography	2 hours	150
3. Lower Mathematics (2 papers)	2 hours each	300
4. Physics plus Chemistry (2 papers)	3 hours each	300
(B) Optional—		
5. British History from 1485	3 hours	300
6. Indian History	3 hours	300
7. Higher Mathematics (2 papers)	3 hours each	300

NOTE 1.—All candidates are required to take 5 subjects, namely, subjects from 1—4 and any one of the subjects from 5—7.

NOTE 2.—Candidates who do not state in their application form the optional subject offered by them or offer wrong subject will do so at their own risk and may be disqualified. No request for a change in the optional subject offered by a candidate will be entertained.

2. All papers must be answered in English unless otherwise expressly stated in the question paper.

3. Candidates must write the papers in their own hand. In no circumstances will they be allowed the help of a scribe to write answers for them.

4. The Commission have discretion to fix qualifying marks in any or all the subjects at the examination.

5. From the marks assigned to candidates in each subject, such deduction will be made as the Commission may consider necessary in order to secure that no credit is allowed for merely superficial knowledge.

6. Deductions up to 5 per cent of the maximum marks for written subjects will be made for illegible handwriting.

7. Credit will be given for orderly, effective and exact expression combined with due economy of words in all subjects of the examination.

SCHEDULE

Standard and Syllabus of the Examination

(1) **ENGLISH.**—The questions will be designed to test the candidate's understanding and command of the language. Amongst other tests a passage will be set for the precis.

(2) **GENERAL KNOWLEDGE.**—There will be two papers. Paper I—dealing mainly with Current Affairs and History.

Paper II—dealing with Science and Geography.

The following syllabus is designed to indicate the scope of each subject included in these papers. The topics mentioned are not to be regarded as exhaustive and questions on topics of similar nature not mentioned in the syllabus may also be asked. Candidate's answers are expected to show their intelligent understanding of the questions and not knowledge of any text book.

PAPER I

Current Affairs.—Knowledge of important events that have happened in India during the past two years. India's system of Government. Important measures of legislation whether undertaken by the Parliament or State Legislatures. Broad questions of India's policy relating to foreign affairs. Questions set will test the factual knowledge of candidates.

World events of international importance. Important personalities, both Indian and foreign. Sports and other cultural activities of outstanding importance.

Indian History.—Broad outline knowledge of Indian History. Knowledge of India's ancient culture and civilization as disclosed by monuments, ancient buildings and masterpieces of literature. Growth of self-Government. Main stages in the national movement leading to independence.

World History.—Elementary knowledge of major events in world history. Reforms or national movements such as represented by the French Revolution, the Industrial Revolution in the U.K., the American War of Independence, the foundation of U.S.S.R., World Wars I and II, modern freedom movements in Asia.

PAPER II

Science—

Physics.—Physical properties and states of matter and simple measurements of mass, weight, density and specific gravity. Motion of object. Velocity, acceleration, force, gravity. Effect of heat, measurement of temperature, transference of heat change of state.

Rectilinear propagation of light, phenomenon of reflection and refraction.

Natural and artificial magnets—Properties of a magnet.

Electricity, static and current, conductors, and non-conductors, heating, lighting and magnetic effects of currents.

Chemistry.—Physical and chemical changes; elements, mixtures and compounds; chemical properties of air; chemical composition of water, preparation and properties of Oxygen, Hydrogen and Nitrogen; Acids, Bases and Salts; Carbon, Coal, Carbon-dioxide.

General.—Elementary knowledge of the human body and its important organs. Names and uses of the common animals, trees, plants, flowers, birds and minerals.

Common epidemics, their causes, means of prevention and cure.

Eminent Scientists, and their achievements.

Geography.—The shape and movements of the Earth, Time, Night and Day and the seasons. Climate and Weather—the main climate and vegetation regions. The Earth's crust-erosion, transportation and deposition; earthquakes and volcanoes. Tides and Ocean currents; Maps.

Human occupations and activities in relation to geographical factors.

The Geography of India with special reference to the above.

(3) LOWER MATHEMATICS.

PAPER I

Arithmetic.—Upto the matriculation standard. Questions on Metric System of coins, weights and measures may also be set.

Mensuration.—Areas of plane figures, volumes and surfaces of cubes, rectangular parallelepipeds, cylinders, pyramids, prisms, cones, tetrahedra, spheres, segments and zones of spheres. Questions on Metric System of weights and measures.

Plane Geometry.—As dealt in the first six books of Euclid.

Solid Geometry.—Theorems 1 to 21 on straight lines and plains in Euclid's Book XI.

Algebra.—Standard formulæ and their applications; factors; fractions; linear and quadratic equations in one unknown; simultaneous equations, indices; surds; simple problems on elimination; graphs; logarithms; arithmetical and geometrical progression (only finite series).

PAPER II

Trigonometry.—Trigonometrical ratios and their graphs, addition theorems; identities; use of four figure tables; simple trigonometrical equations; solution of triangles; heights and distances.

Mechanics.—Composition and resolution of forces in one plane; moments; simple graphical methods; simple cases of equilibrium; centre of gravity; work; velocity ratio, mechanical advantage and efficiency of a machine; levers, pulleys, balances and other simple machines.

Rectilinear motion under uniform acceleration; graphical treatment of velocities and accelerations; composition and resolution of velocities and accelerations in a plane; Conservation of linear momentum and energy; work and power.

N.B.—Proofs of the parallelogram and triangle of forces and of the principle of moments will not be asked. Questions will not be set on curvilinear motion.

(4) **PHYSICS PLUS CHEMISTRY.**—Two question papers will be set. One paper will be two-third Electricity and one-third Chemistry and the other paper two-third Physics other than Electricity and one-third Chemistry. In each paper candidates will be required to answer a question in Chemistry but a choice of questions will be given so that full marks may be scored without a knowledge of Organic Chemistry.

Physics.

Paper I—Section I.

Electricity.—The fundamental ideas concerning electric currents, difference of potential resistance, construction and mode of action of the commoner primary batteries. The fundamental laws of electrolysis and their application in secondary cells and electroplating. Heating effect of a current; its application in incandescent and arc lamps, electric welding, cooking, etc. The Phenomena of permanent and induced magnetism in iron, fields of magnetic force; the magnetic field associated with an electric current. The construction and action of an electro-magnet; application in electro-magnetic induction, broad principles and applications of the induction coil, magneto, dynamo and motor. The fundamental ideas concerning wireless telegraphy. The simple methods of measuring electric current, difference of potential and resistance;

practical definitions of ampere, volt and ohm. Ohm's law. Construction and mode of action of simple measuring instruments, electric transmission of power by direct current; joule, watt. Board of Trade unit of electric energy.

Paper II—Section I.

General principles of measurement, solids, liquids and gases.

Hydrostatics.—Fluid pressure; floating bodies. Determination of specific gravity. Gaseous pressure. Boyles law, atmospheric pressure; barometers. Air and water pumps and other simple instruments.

Heat.—Temperature; thermometer; Specific heat; latent heat; Calorimeters Expansion; measurement and simple illustrations. Transmission of heat; convection, conduction and radiation; application to heating and ventilating. Vaporization, distillation, humidity, fog and cloud. Heat considered as energy mechanical equivalent, generation of heat; calorific values.

Optics.—Transmission, reflection, refraction of light, prisms and lenses; the formation of images. Construction of simple telescope and microscope. The eye; spectacle, intensity; principles of illumination, photometry. Dispersion; spectroscopes; colour.

Chemistry.

Paper I—Section II.

Inorganic Chemistry.—The Chemical properties of oxygen, hydrogen, nitrogen, chlorine, carbon, sulphur, phosphorus and their common compounds. The general characteristics and behaviour of the metals potassium, calcium, aluminium, copper, zinc, mercury, tin, lead and iron. The preparations (without technical details) and uses of chemicals of industrial importance, such as oxygen, soda, sulphuric acid, coal gas and of the more important metals.

Paper II—Section II.

General Chemistry.—Elements, compounds, and mixtures, Laws of chemical combination, Equivalents, molecular and atomic weights. Structural formulæ and valency. Outlines of the properties of solutions. Heat of reaction.

Organic Chemistry.—Outlines of the Chemistry of the simple compounds containing not more than two carbon atoms directly connected. An elementary knowledge of the properties of benzene and its simpler derivatives. The part played by Carbon compounds in the life of animals and plants, fats, soap, starch and sugars, treated descriptively. Carbon compounds as source of energy.

(5) **BRITISH HISTORY FROM 1485.**—British History including British Colonial History and European History as affecting British History.

Although a fixed date is given for the beginning of the period candidates will be expected to know in general outline how the initial position was reached. Such knowledge of geography as is necessary to make the history comprehensive will be required.

(6) **INDIAN HISTORY WITH SPECIAL REFERENCE TO THE HISTORY OF INDIA FROM 1526 ONWARDS.**—The paper will deal with great men and great events, great changes and great movements, and the broad features of general life in the history of India.

(7) HIGHER MATHEMATICS

PAPER I

Elements of Solid Geometrical Drawing.

Plane and Elevation: Solids in Simple positions; solids in positions inclined to the vertical or horizontal plane, circular solids with inclined axes, sections of solids by planes.

Projection of points and lines; planes; lines and points in planes.

Co-ordinate Geometry.

Standard forms of the equation of a straight line; angle between two straight lines; length of perpendicular; equations of bisectors of angle between two straight lines. Pair of straight lines.

General equation of circle; equations of ellipse, parabola and hyperbola in the standard forms in rectangular co-ordinates; tangents and normals; simple properties of these curves.

Algebra.

Method of indeterminate co-efficients; partial fractions; permutation and combination: binomial theorem for a positive integral index.

Graphical method of solving equations.

PAPER II**Calculus.**

Derivatives of standard forms: successive derivatives, application of Taylor's and Maclaurin's theorems to the expansion of functions (rigorous proofs of these theorems are not expected) and to evaluation of approximate values of functions; applications of the notion of derivative to geometry, mechanics and physics; simple cases of maxima and minima of functions of a single variable.

Integration of standard forms and questions based on them. Integration by substitution and by parts; integration of rational functions.

Mechanics.

Simple problems relating to:

Friction: equilibrium of bodies under co-planer forces; link polygons.

Simple Harmonic Motion; motion along inclined planes; motion of connected particles; projectiles, relative velocity; angular velocity; simple and conical pendulums, rotation of a rigid body about a fixed axis; the action of such mechanical devices as cranks, engine-governors, cranes brakes.

INTELLIGENCE AND PERSONALITY TEST

In addition to the interview the candidates will be put to Intelligence Tests both verbal and non-verbal designed to assess their basic intelligence. They will also be put to Group Tests, such as group discussions, group planning, outdoor group tasks, and asked to give brief lectures on specified subjects. All these tests are intended to judge the mental calibre of a candidate. In broad terms, this is really an assessment of not only his intellectual qualities but also his social traits and interest in current affairs.

APPENDIX III**Fees**

Candidates seeking admission to the examination must pay the following fees:—

- (i) Re. 1.00 nP. when asking for application form and connected documents.

This amount should be paid to the Commission by money order. Local candidates, however, may pay cash at the counter. The Commission will not accept payment made otherwise.

- (ii) Rs. 36.50 nP. (Rs. 8.37 nP. in the case of candidates belonging to Scheduled Castes and Scheduled Tribes) with the completed application form.

This amount should be paid by means of Treasury Receipt or CROSSED Indian Postal Orders payable to the Secretary, Union Public Service Commission. The Commission will not accept payment made otherwise.

2. Candidates who obtain application form, etc., from authorities other than the Union Public Service Commission, must pay Rs. 37.50 nP. (Rs. 9.37 nP. in the case of candidates belonging to Scheduled Castes and Scheduled Tribes) with the completed application form.

3. Once an application has been considered by the Commission and the decision communicated to the candidate, no claim from the candidate for a refund of the fees paid by him to the Commission will be entertained, nor can the fees be held in reserve for any other examination or selection. If however, a candidate is not admitted to the examination by the Commission, a refund of Rs. 30.00 nP. (Rs. 7.50 nP. in the case of candidates belonging to Scheduled Castes and Scheduled Tribes) will be made to him.

A refund of Rs. 30.00 nP. (Rs. 7.50 nP. in the case of candidates belonging to Scheduled Castes and Scheduled Tribes) will be made to candidates who take the examination and secure 50 per cent or more marks in the aggregate of the written papers. No refund, however, will be made if a candidate is provisionally admitted to the examination and subsequently his candidature is cancelled for not fulfilling the condition (s).

4. The Commission may at their discretion remit the prescribed fee where they are satisfied that the applicant is a bona-fide displaced person from Pakistan and is not in a position to pay the prescribed fee. The fee of Re. 1.00 nP. however, must be paid even by a displaced person when asking the Commission for a form and this amount will be refundable to him if on receipt of his application, his claim to be a displaced person is accepted by the Commission and his fee is remitted.

Candidates should not detach this Card

UNION PUBLIC SERVICE COMMISSION

Roll No.....

Indian Navy Examination December, 1963.

(BLOCK CAPITALS)

(To be completed by the candidate)

Name

Address

UNION PUBLIC SERVICE COMMISSION

D. H. Q. P. O.

Dholpur House, Shahjahan Road,
New Delhi-11, the 1963.MEMORANDUM

The undersigned is directed to acknowledge receipt of his application for admission to the Indian Navy Examination, December 1963.

2. His Roll No. is In all correspondence with this Office he should quote (i) the name of the Examination with month and year, (ii) his Roll No., (iii) the Centre of Examination; otherwise his communications may remain unattended to.

3. Any change in his address should be communicated to this Office at once, along with the details mentioned in para 16 of the "Instructions to Candidates" contained in the Annexure.

4. This is merely an acknowledgement of his application. The decision of the Union Public Service Commission regarding his admission to the Examination will be communicated to him in due course.

Candidate should himself write
his complete address on reverse }

Under Secretary,
UNION PUBLIC SERVICE COMMISSION.

P.T.O.

ON INDIA GOVERNMENT SERVICE

Address.....

S. S. DEVGAN,
Under Secretary,
UNION PUBLIC SERVICE COMMISSION,
NEW DELHI.

Indian Navy Examination, December, 1963.

UNION PUBLIC SERVICE COMMISSION

Application Form for Admission as Special Entry Cadets into the Indian Navy.

SECTION 'A'

"To be filled in the candidate's own handwriting"

ALL ANSWERS MUST BE GIVEN IN WORDS AND NOT BY DASHES OR DOTS

Affix signed passport size (2" x 2½") approx. photograph vide paragraph 4 (iv) of the Instructions to candidates contained in the Annexure.

1. Name in block letters		(a) as generally used (b) in full i.e., expanding initials if used above	(a) (b)
2. Postal address (in full in block letters) to which communications should be sent			
3. Name of Examination, month and year in which it is to be held (in block letters)			
4. Name from the list of centres given in paragraph 1 of the Notice, the place where you wish to take the examination.			
5. Exact date of birth (in Christian era)			
6. (a) District and State to which you belong (In case of Displaced persons, the District and place in which they are settled after migration should be stated)		(a)	
(b) Place of birth and State in which it is situated.		(b)	
(c) Give below particulars of place(s) where you have lived for more than one year during the last five years :—			
Place (including district) of residence	Full Address	Period of residence with dates	
7. Are you a citizen of India by birth and/or by domicile?			
8. If you are not a citizen of India, to what place do you claim to belong.			
9. (a) Is a certificate of eligibility necessary in your case?		(a)	
(b) If so, do you understand that, your admission to the Indian Navy, if successful will be subject to a certificate of eligibility being given in your favour?		(b)	
10. (a) State your Religion.		(a)	
(b) (i) Are you a member of a *Scheduled Caste? Answer 'Yes' or 'No'.		(b)(i)	
(ii) Are you a member of a *Scheduled Tribe? Answer 'Yes' or 'No'		(ii)	
(iii) If the answer to (i) or (ii) is 'Yes', give the name of the Caste or 'Tribe'		(iii)	
(iv) Have you attached an original certificate from a competent authority in support of your claim? (Paragraph 6 of the Annexure).		(iv)	
11. What is your father's name and address? If dead, state his last address?			

*NOTE.—'Scheduled Castes' or 'Scheduled Tribes, means any of the races, castes or tribes specified as such by the President of India.

21. (a) Give particulars of all examinations (if any) you have passed and the class, division or other distinction obtained commencing with the Matriculation or equivalent examination :—

Examination	Class or Division		Year	Subjects taken	Name of— (a) University/Board (b) Hall or Hostel
	Pass	Hons.			

21. (b) (i) State whether you passed the Matriculation examination as a private candidate

(ii) If so, who recommended your application?

22. (a) What games do you play or have you played?

(b) Name any position of authority (e.g., School Monitor) or distinction in games or athletics you have achieved mentioning dates.

23. Give the name and address of the Principal or Head of the College or School at which you were last educated or are now being educated.

24. If your time since leaving school or College is not fully accounted for by the replies given above account for the remainder here with dates.
If you have had employers, state their names and addresses in full.

25. Have you ever been convicted by a criminal court and if so in what circumstances and what was the sentence?

26. (a) Are you free from debt? (Answer 'Yes' or 'No').

(b) If you are under liability to repay money advanced by any institution or party for your education or for any other purpose state the particulars.

If the answer to (a) is 'No', answer (b) clearly.

27. State your order of Preference for the various Branches of the Indian Navy, viz, the 'Executive', 'Engineering', Supply and Secretariat and Electrical. Due consideration will be given to the preference expressed by a Candidate but the Government reserve the right to assign him to any branch to suit the requirements of the Service.

28. State the name of the treasury, bank or post Office from which you submit a Treasury Receipt or Postal Orders and the number and date of the Treasury Receipt or Postal Orders.

Name of Treasury, Bank or Post Office	Number of Treasury Receipt or Postal Orders	Date	Value
			Rs. nP.

29. Give a list of the documents enclosed *vide* para 4 of the 'Instructions to candidates' contained in the Annexure :—

- (1)
(2)
(3)
(4)
(5)

30. State clearly the optional subject in which you wish to be examined. You should make certain that your selection conforms to para I of App. II of the Notification. You will be responsible for the consequences of any errors or omissions which you may make in the selection of your subject. No change in the selection of subject once made will be allowed.

DECLARATION TO BE SIGNED BY THE CANDIDATE

I, I hereby declare that the statements made in this form are true to the best of my knowledge and belief; that I am not married nor am I a widower or a divorcee and I undertake that I will not marry while I am a candidate for admission to or am under training for the Navy and that I am a—

(a) Citizen of India.

(b) Subject of Sikkim.

(c) Gorkha subject of Nepal.

(d) Non-Gorkha subject of Nepal.

(e) Displaced person from areas which now form Pakistan. A certificate of eligibility is necessary in my case.

Strike out the portion not applicable to you.

is
is not

2. I also declare that if accepted for training for the Indian Navy, I will not during such training incur any financial obligation which I would be bound to discharge out of my pay as an officer of the Indian Navy, if I receive a Commission.

NOTE.—A candidate who marries subsequent to the date of his declaration, though successful at the ensuing or any subsequent examination, will not be selected for training. A candidate who marries while under training will be discharged and will be liable to refund all the expenditure incurred on him by Government. The total estimated cost of training refundable by the parent or guardian of such a candidate will be notified later.

3. I understand that any medical examination conducted at any stage of the selection procedure does not necessarily mean that I have been selected.

Signature of witness.....

Signature of candidate.....

Full address

Date.....

Date.....

SECTION "B"

FORM OF CERTIFICATE TO BE SIGNED BY THE CANDIDATE

I hereby certify that I fully understand that I will, if required, attend a Services Selection Board with my full and free consent and at my own risk and that I or my legal heirs shall not be entitled to claim any compensation or other relief from the Government in respect of any injury which I may sustain in the course of or as a result of any of the tests given to me at the said Services Selection Board whether due to the negligence of any person or otherwise.

Place.....

Signature of candidate.....

Date.....

FORM OF CERTIFICATE TO BE SIGNED BY THE PARENT/GUARDIAN OF A MINOR CANDIDATE

I, (Name).....father/guardian of (Name).....who is a candidate for a Regular Commission in the Indian Navy, hereby certify that I fully understand that my son/ward, will if required, attend a Services Selection Board with my full and free consent and at my own risk and that I or my son/ward shall not be entitled to claim any compensation or other relief from the Government in respect of any injury which my son/ward may sustain in the course of or as a result of any of the tests given to him at the said Services Selection Board whether due to the negligence of any person or otherwise.

Place.....

Signature of father/guardian.....

Date

SECTION "C"

TO BE COMPLETED BY THE COMMANDING OFFICER OF A CANDIDATE SERVING IN THE ARMED FORCES

QUESTIONS

ANSWERS

Date of joining the Corps/Establishment.....

Whether still an efficient member ?

Rank in Army/Navy/Air Force.....

Date of appointment to that rank.....

Appreciation of the candidate's likelihood to make a suitable officer (the opinion given should, if possible, touch upon the general character of the candidate and such qualities as his keenness, courage, initiative, self-reliance, power of leadership and reliability and upon any other matter which may be useful to the Commission) :—

Place

Commanding Unit or Establishment.....

Date.....

(TO BE COMPLETED BY HEAD OF MINISTRY OR OFFICE IN THE CASE OF A CANDIDATE IN THE CIVIL EMPLOY OF GOVERNMENT)

Certified that Shri.....holds a permanent/temporary post under the Central/State Government. His character so far as known to me is good and I am not aware of any circumstances which show that he would be unsuitable for appointment if successful in the examination. I recommend that he be admitted to it.

Certified also that he submitted his application to the Department/Office on.....for onward transmission to the Commission.

Date

Signature.....
Designation

Ministry or Office.....

SECTION "D"

(TO BE COMPLETED BY THE PRESIDENT, SERVICES SELECTION BOARD)

Name of candidate.....Batch No.....Candidate No.....

Marks awarded (both in words and figures).....

Branch of Service for which recommended.....

Station.....

Signature.....

Date

President No.....Services Selection
Board, I.N., Examination, December, 1963.

